WHAT IS CLAIMED IS:

- 1. A positioning device comprising:
- a casing having an opening and a process chamber kept
- 5 in an environment different from the outside;
 - a table arranged in said process chamber;
 - a connecting portion connected to said table and extending through said opening to the outside;
- a moving portion connected to said connecting portion outside of said process chamber;
 - a base for supporting said moving portion movably;
 a differential pumping seal arranged between said casing
 and said moving portion; and
- adjusting support mechanisms for supporting said base 15 and said casing in a relatively displacing manner.
- A positioning device according to Claim 1,
 wherein said casing is placed on a surface plate, and
 wherein said base is placed on said surface plate through
 said adjusting support mechanisms.
 - 3. A positioning device according to Claim 2, wherein said base is supported at three points or more by the support portions of said adjusting support mechanisms.

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- 4. A positioning device according to Claim 1,
 wherein each of said adjusting support mechanisms
 includes: a first adjusting portion for displacing said base
 and said casing in a first extent relatively to each other;
 and a second adjusting portion for causing the displacement
 in a smaller extent than said first extent.
- A positioning device according to Claim 1,
 wherein said adjusting support mechanisms include
 hydraulic type drive sources.
 - 6. A positioning device according to Claim 1,
 wherein said adjusting support mechanisms include
 electric type drive sources.

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7. A positioning device according to Claim 6, wherein said adjusting support mechanisms include suppress means for suppressing the relative displacement of said base and said casing when no electric power is supplied.

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8. A positioning device according to Claim 1,
wherein said casing includes a process chamber casing
having a first opening for involving said process chamber, and
a seal plate having a second opening and arranged between said
process chamber casing and said moving portion,

wherein said connecting portion extends through said first opening and said second opening, and

wherein an O-ring or a bellows is so arranged between said process chamber casing and said seal plate as to enclose said first opening and said second opening.